

What is claimed is:

1. A heat exchanger mounting structure for mounting a heat exchanger in a front space of an engine room of a vehicle, comprising:

a cross member laterally extending in the front space of the engine room;

supporting portions provided on a vehicle body for supporting opposite ends of the cross member, respectively;

elastic members provided between the supporting portions and the opposite ends of the cross member, respectively; and

connecting members for connecting an upper part of the heat exchanger to the cross member; wherein

said supporting portions are configured to deform when an external force caused by a vehicle collision is applied to the cross member such that the upper part of the heat exchanger moves rearward and downward upon deformation of the supporting portions.

2. The heat exchanger mounting structure according to claim 1, wherein

said supporting portions are provided with inclined mounting surfaces declining toward the front on which the opposite ends of the cross member are supported with the elastic members, respectively.

3. The heat exchanger mounting structure according to claim 2, wherein

said supporting portions are provided with weak portion configured to cause destruction of the supporting portions by its own deformation when an external force exceeding a predetermined level is applied on the cross member.

4. The heat exchanger mounting structure according to claim 3, wherein

said supporting portions are configured to deform rearward and downward along the weak portion to cause rearward and downward displacement of the upper part of the heat exchanger.

5. The heat exchanger mounting structure according to claim 1, wherein

said cross member is configured as a shock absorbing member disposed under an engine hood covering the engine room, and configured to absorb shock transmitted through deformation of the engine hood.

6. A heat exchanger mounting structure for mounting a heat exchanger in a front space of an engine room of a vehicle, comprising:

supporting portions provided on a vehicle body for supporting left and right ends of an upper part of the heat exchanger, respectively;

connecting members for connecting the left and right ends of the upper part of the heat exchanger to the supporting portions; and

elastic members provide between the supporting portion and the connecting members, respectively; wherein

said supporting portions are configured to break when an external force exceeding a predetermined level caused by a vehicle collision is applied to the upper part of the heat exchanger such that the upper part of the heat exchanger moves rearward and downward upon breakage of the supporting portions.

7. The heat exchanger mounting structure according to claim 6, wherein

said supporting portions are provided with inclined

mounting surfaces declining toward the front, respectively, and

said mounting surfaces are provided with an weak portion, respectively, configured to deform the supporting portions by its own break when an external force exceeding a predetermined level is applied on the upper part of the heat exchanger.

8. The heat exchanger mounting structure according to claim 7, wherein

said supporting portions are configured to deform rearward and downward along the weak portion to cause rearward and downward displacement of the upper part of the heat exchanger.

9. The heat exchanger mounting structure according to claim 1 or 6, wherein

said mounting portions is provided on a carrier member attached on the vehicle body.